

IN THE CLAIMS

Please amend claims 1-4 and 8-21 as follows:

What is claimed is:

- Sub B1
1. (Currently Amended) A method comprising:
- ~~providing~~ identifying a plurality of behavioral parameters associated with a current design feature selected by a user;
- presenting the plurality of behavioral parameters to the user;
- receiving user input identifying one or more behavioral parameters selected from ~~[[of]]~~ the plurality of behavioral parameters ~~from~~ by the user; and
- modeling the current design feature based on the one or more ~~of the plurality of~~ behavioral parameters selected by the user and context defined by other design features of an object having the current design feature.
2. (Currently Amended) The method defined in Claim 1 wherein the one or more ~~of the plurality of the~~ behavioral parameters reflect functionality intended by the user for the current design feature.
3. (Currently Amended) The method defined in Claim 2 further comprising:
- receiving a user request to modify a geometric parameter of the current design feature;
- and
- modifying the geometry of the current design feature while maintaining the intended functionality of the current design feature as identified by the one or more behavioral
- A1

parameters of the current design feature and relationships of the current design feature with the other design features of the object.

4. (Currently Amended) The method defined in Claim 1 further comprising:
receiving one or more geometric parameters pertaining to the current design feature
from the user.

5. (Original) The method defined in Claim 1 further comprising:
displaying a user interface facilitating selection of the one or more behavioral
parameters by the user.

6. (Original) The method defined in Claim 1 further comprising:
displaying the modeled design feature on a screen.

7. (Original) The method defined in Claim 1 further comprising:
defining a plurality of behavioral parameters for each of a plurality of design features
using a set of rules associated with a corresponding application.

8. (Currently Amended) The method defined in Claim 1 wherein modeling the
current design feature comprises:

calculating geometry of the current design feature based on the one or more of the ~~plurality of behavioral parameters~~ and relationships of the current design feature with geometry of the other design features of the object.

9. (Currently Amended) The method defined in Claim 8 further comprising:
determining ~~a relation~~ relationships between the current design feature and a ~~previously created the other design feature~~ features of the object based on the one or more of ~~the plurality of behavioral parameters.~~

10. (Currently Amended) The method of defined in Claim 9 further comprising:
receiving a user request to modify any one of a geometric and behavioral parameter of ~~previously created one of the other design feature~~ features;
modifying ~~the previously created~~ said one of the other design feature features; and
adjusting the current design feature to maintain functionality defined by the one or more of ~~the plurality of behavioral parameters.~~

11. (Currently Amended) An apparatus comprising:
a parameter controller to identify a plurality of behavioral parameters associated with a current design feature selected by a user;

a user interface to display ~~[[a]]~~ the plurality of behavioral parameters, associated with a design feature selected by a user and to facilitate user selection of one or more behavioral

parameters [[of]] from the plurality of behavioral parameters, and to receive user input
identifying the one or more behavioral parameters selected by the user; and

a modeler to model the current design feature based on the one or more ~~of the plurality~~
~~of behavioral parameters~~ selected by the user and context defined by other design features of
an object having the current design feature.

M 12. (Currently Amended) The apparatus of claim 11 wherein the one or more ~~of~~
~~the plurality of the~~ behavioral parameters reflect functionality intended by the user for the
current design feature.

13. (Currently Amended) The apparatus of claim 11 wherein the ~~modeling~~
~~algorithm~~ modeler is further to receive a user request to modify a geometric parameter of the
current design feature, and to modify the geometry of the current design feature while
maintaining the intended functionality of the current design feature as identified by the one or
more behavioral parameters of the current design feature and relationships of the current
design feature with the other design features of the object.

14. (Currently Amended) The apparatus of claim 11 wherein the user interface is
further to facilitate user input of one or more geometric parameters pertaining to the current
design feature.

15. (Currently Amended) The apparatus of claim 11 wherein the user interface is further to display the current design feature.

16. (Currently Amended) The apparatus of claim 11 wherein ~~further comprising a~~ the parameter generator controller is further to define a plurality of behavioral parameters for each of a plurality of design features using a set of rules associated with a corresponding application.

17. (Currently Amended) The apparatus of claim 11 wherein the ~~modeling algorithm~~ modeler is to model the current design feature by calculating geometry of the current design feature based on the one or more ~~of the plurality of~~ behavioral parameters and relationships of the current design feature with geometry of the other design features of the object.

18. (Currently Amended) The apparatus of claim 17 wherein the ~~modeling algorithm~~ modeler is further to determine ~~a relation~~ relationships between the current design feature and ~~a previously created~~ the other design feature features of the object based on the one or more ~~of the plurality of~~ behavioral parameters.

19. (Currently Amended) The apparatus of claim 18 wherein the ~~modeling algorithm~~ modeler is further to receive a user request to modify any one of a geometric and

behavioral parameter of ~~previously created~~ one of the other design features feature, to modify ~~the said one of the other design features feature~~, and to adjust the current design feature to maintain functionality defined by the one or more ~~of the plurality of~~ behavioral parameters.

20. (Currently Amended) A system comprising:

means for ~~providing~~ identifying a plurality of behavioral parameters associated with a current design feature selected by a user;

means for presenting the plurality of behavioral parameters to the user;

means for receiving user input identifying one or more behavioral parameters selected from [[of]] the plurality of behavioral parameters ~~from~~ by the user; and

means for modeling the current design feature based on the one or more ~~of the~~ plurality of behavioral parameters selected by the user and context defined by other design features of an object having the current design feature.

21. (Currently Amended) A computer readable medium comprising executable instructions which when executed on a processing system cause said processing system to perform a method comprising:

~~providing~~ identifying a plurality of behavioral parameters associated with a current design feature selected by a user;

presenting the plurality of behavioral parameters to the user;

receiving user input identifying one or more behavioral parameters selected from
[[of]] the plurality of behavioral parameters ~~from~~ by the user; and
modeling the current design feature based on the one or more ~~of the plurality of~~
behavioral parameters selected by the user and context defined by other design features of an
object having the current design feature.

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Please add the following new claims:

22. (New) The method defined in Claim 2 further comprising:

maintaining the functionality intended by the user for the current design feature during
a design process of the object.

23. (New) The method defined in Claim 1 wherein presenting the plurality of
behavioral parameters to the user comprises:

displaying to the user a plurality of characteristics of the current design feature
selected by the user and a set of functional options for each of the plurality of characteristics,

wherein each of the plurality of behavioral parameters contains one of the plurality of
characteristics and one functional option from a list of functional options available for said
one of the plurality of characteristics.

24. (New) The method defined in Claim 23 wherein receiving user input identifying one or more behavioral parameters selected from the plurality of behavioral parameters comprises:

allowing the user to select one functional option from a list of functional options for each of the plurality of characteristics.

25. (New) The apparatus of claim 12 further comprising:

maintaining the functionality intended by the user for the current design feature during a design process of the object.

26. (New) The apparatus of claim 11 wherein the user interface is to display the plurality of behavioral parameters to the user by displaying to the user a plurality of characteristics of the current design feature selected by the user and a set of functional options for each of the plurality of characteristics,

wherein each of the plurality of behavioral parameters contains one of the plurality of characteristics and one functional option from a list of functional options available for said one of the plurality of characteristics.

27. (New) The apparatus of claim 26 wherein the user interface is to facilitate user selection by allowing the user to select one functional option from a list of functional options for each of the plurality of characteristics.